

THE CLAIMS:

The status of the claims is as follows:

1. (Currently Amended) A converter for satellite communication reception, comprising:

a horn configured to receive first and second linear polarized waves orthogonal to each other;

a case having two waveguides configured to branch the first and second linear polarized waves, respectively, and to propagate the corresponding first and second linear polarized waves;

a circuit substrate fitted to the case and disposed ~~whose~~ within a plane is in parallel with to a direction in which ~~that~~ the first and second linear polarized waves propagate; and

two probes disposed on the circuit substrate, wherein the two probes comprise pin members that face are oriented orthogonal to each other ~~are respectively positioned~~ within the corresponding waveguides;

wherein the first and second linear polarized waves produce signals that can be ~~simply amplified and synthesized~~ received by the two probes ~~while on the circuit~~ substrate; and

wherein the two pin members each have an L shape, and wherein a ground pattern overlying the circuit substrate is configured as a reflective face for the pin members.

2. (Currently Amended) The converter for satellite communication reception according to Claim 1, ~~wherein the two probes consist of pin members, and wherein these pin members are supported by the circuit substrate~~ further comprising a mixer coupled to the circuit substrate.

3. (Currently Amended) The converter for satellite communication reception according to Claim 2, ~~wherein the two pin members have an L shape, and wherein a ground pattern overlying the circuit substrate is configured as a reflective face for the pin members~~ further comprising a short cap coupled to the circuit substrate.

4. (Currently Amended) The converter for satellite communication reception according to Claim 1, wherein:

each of the two waveguides comprises a bending portion at which the corresponding linear polarized wave bends perpendicularly and propagates;

the two probes comprise electroconductive patterns overlying the circuit substrate; and

the electroconductive patterns are disposed between the ~~corresponding~~ respective bending portions and corresponding short caps, which serve as reflective faces, coupled to the circuit substrate.